

## Refine Search

### Search Results -

Terms	Documents
L4 and (560/\$ or 508/\$)	14

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L5





### Search History

DATE: Thursday, July 27, 2006    [Printable Copy](#)    [Create Case](#)

#### Set Name Query

side by side

#### Hit Count Set Name

result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L5</u>	L4 and (560/\$ or 508/\$)	14	<u>L5</u>
<u>L4</u>	L3 and acid number	30	<u>L4</u>
<u>L3</u>	L2 and sulfur and phosphorus and peroxide and carbonyl and ash	104	<u>L3</u>
<u>L2</u>	L1 and diester	12835	<u>L2</u>
<u>L1</u>	cyclohexane or cyclohexene	178312	<u>L1</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 10 of 14 returned.

☐ 1. Document ID: US 20050038283 A1

L5: Entry 1 of 14

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050038283

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050038283 A1

TITLE: Dicarboxylic diester, process for producing the same, and refrigerating machine lubricating oil comprising the ester

PUBLICATION-DATE: February 17, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kawahara, Yasuyuki	Uji-shi		JP
Takahashi, Kouji	Kyoto-shi		JP
Takii, Makiko	Uji-shi		JP

US-CL-CURRENT: 560/76; 560/127

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 2. Document ID: US 20030096713 A1

L5: Entry 2 of 14

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030096713

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030096713 A1

TITLE: LUBRICATING COMPOSITIONS WITH IMPROVED OXIDATION RESISTANCE CONTAINING A DISPERSANT AND AN ANTIOXIDANT

PUBLICATION-DATE: May 22, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
SCHNUR, ERIC R.	MENTOR	OH	US
RICHARDSON, ROBERT C.	MENTOR	OH	US
SCHWIND, JAMES J.	DERBYSHIRE		GB

US-CL-CURRENT: [508/192](#); [508/287](#), [508/443](#), [508/563](#), [508/572](#), [508/584](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 3. Document ID: US 20030092585 A1

L5: Entry 3 of 14

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092585

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030092585 A1

TITLE: Lubricating compositions and concentrates containing an antiwear amount of a thiadiazole

PUBLICATION-DATE: May 15, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
O'Connor, Brian M.	South Euclid	OH	US
Galic Raguz, Mary	Mentor	OH	US

US-CL-CURRENT: [508/273](#); [508/283](#), [508/454](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 4. Document ID: US 20030000866 A1

L5: Entry 4 of 14

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030000866

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030000866 A1

TITLE: Mineral gear oils and transmission fluids

PUBLICATION-DATE: January 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Cain, Robert W.	Lyndhurst	OH	US

US-CL-CURRENT: [208/18](#); [208/19](#), [508/110](#), [508/185](#), [508/322](#), [508/368](#), [508/421](#),  
[508/569](#), [585/13](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 5. Document ID: US 6872693 B2

L5: Entry 5 of 14

File: USPT

Mar 29, 2005

US-PAT-NO: 6872693

DOCUMENT-IDENTIFIER: US 6872693 B2

TITLE: Mineral gear oils and transmission fluids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 6667285 B1

L5: Entry 6 of 14

File: USPT

Dec 23, 2003

US-PAT-NO: 6667285

DOCUMENT-IDENTIFIER: US 6667285 B1

TITLE: Lubricating oil for refrigerator, hydraulic fluid composition for refrigerator and method for lubricating of refrigerator

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 6001783 A

L5: Entry 7 of 14

File: USPT

Dec 14, 1999

US-PAT-NO: 6001783

DOCUMENT-IDENTIFIER: US 6001783 A

TITLE: Mixed polysulfides and lubricants and functional fluids containing the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 5834407 A

L5: Entry 8 of 14

File: USPT

Nov 10, 1998

US-PAT-NO: 5834407

DOCUMENT-IDENTIFIER: US 5834407 A

TITLE: Lubricants and functional fluids containing heterocyclic compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 5726132 A

L5: Entry 9 of 14

File: USPT

Mar 10, 1998

US-PAT-NO: 5726132

DOCUMENT-IDENTIFIER: US 5726132 A

TITLE: Oil composition for improving fuel economy in internal combustion engines

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 10. Document ID: US 5712230 A

L5: Entry 10 of 14

File: USPT

Jan 27, 1998

US-PAT-NO: 5712230

DOCUMENT-IDENTIFIER: US 5712230 A

TITLE: Additive compositions having reduced sulfur contents for lubricants and functional fluids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 11. Document ID: US 5705458 A

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File: USPT

Jan 6, 1998

US-PAT-NO: 5705458

DOCUMENT-IDENTIFIER: US 5705458 A

TITLE: Additive compositions for lubricants and functional fluids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 12. Document ID: US 5693598 A

L5: Entry 12 of 14

File: USPT

Dec 2, 1997

US-PAT-NO: 5693598

DOCUMENT-IDENTIFIER: US 5693598 A

TITLE: Low-viscosity lubricating oil and functional fluid compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 13. Document ID: US 5674820 A

L5: Entry 13 of 14

File: USPT

Oct 7, 1997

US-PAT-NO: 5674820

DOCUMENT-IDENTIFIER: US 5674820 A

TITLE: Additive compositions for lubricants and functional fluids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 14. Document ID: US 5413725 A

L5: Entry 14 of 14

File: USPT

May 9, 1995

US-PAT-NO: 5413725

DOCUMENT-IDENTIFIER: US 5413725 A

TITLE: Pour point depressants for high monounsaturated vegetable oils and for high

monounsaturated vegetable oils/biodegradable base and fluid mixtures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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